



"A leading worldwide supplier of high efficiency filters for a variety of industries and applications."

HIGH CAPACITY COALESCING FILTERS

Protect sensitive equipment, dry seal compressors and high volume air & gas applications with our large coalescing filter assemblies. These filters, like their smaller counter parts utilize our microfiber elements to remove upwards of 99.99% of contaminants at 0.01 micron. The 385AHP/390AHP series of coalescing filters have increased liquid holding capacity and are available with optional high volume automatic float drains (with function above 12 psi), and differential pressure indicators which are sensitive in the 2 to 16 psi differential.



Features:

- Rugged, 100% Machined Anodized Aluminum Construction
- Remove 99.99% Of Oil, Water, & Solids From Compressed Air & Other Gases
- Capture Dirt, Coalesce Liquids

Applications:

- Mainline Compressed Air Filtration
- CNG Filtration
- Pre-Filter / Solid Removal In Gas Lines
- Dry Seal Protection

At the heart of our filter products is the filter element. Choosing the correct element insures proper results for your specific application:

Disposable Microfiber Elements

Disposable Microfiber Elements are most commonly used since they offer exceptional filtration, high flows with minimal pressure drops, and excellent chemical compatibility. These are ideal for use in sample conditioning, instrumentation, CNG, and Emission/Environmental service.

- For **Coalescing (liquid removal)** and particle collection use our grade "CS". We recommend starting with the 70CS which is rated at 95% efficient at 0.01 micron which provides outstanding filtration, at high flow rates.



Vapor Adsorption Cartridges

Our vapor adsorption cartridges are packed with either carbon/charcoal for oil vapor adsorption (designated as CC-TP) or Silica Gel for water vapor adsorption (designated as SG-TP).

- These units are only for adsorption of oil or water vapor and should be preceded by at least one coalescing filter assembly (70CS).

Pleated Cartridges

Pleated Cartridges have up to 3 times the surface area of standard depth filters offering exceptional life. These are ideal pre-filters to be used in systems with heavy particulate loads to reduce the frequency that the cartridges need to be changed. We also recommend a pleated cartridge to be used as an after filter for Desiccant Dryers.

- United Filtration Systems offers a variety of pleated filter cartridges for both gaseous and liquid applications. These cartridges are available in Stainless Steel, Micro-Glass, Cellulose & Polypropylene to cover a broad range of applications.

HIGH CAPACITY COALESCING FILTERS

- Fuel Gas Filter
- Accepts Microfiber, Stainless Steel, Vapor Adsorption, & Pleated Elements
- Comes Standard With 70CS For Heavy Coalescing



TECHNICAL INFORMATION

| Housing Model | 385AHP | 385AHPF | 390AHP | 390AHPF |
|--|--------------------|--------------------|--------------------|--------------------|
| Headline Part Number | 385AHP | 385AHPF | 390AHP | 390AHPF |
| Port Size (NPT) | 1 1/2" or 2" | 1 1/2" or 2" | 2" | 2" |
| Drain Type (NPT) | Petcock | Automatic | Petcock | Automatic |
| Maximum Pressure (psig) | 1,000 | 250 | 1,000 | 250 |
| Maximum Temperature (°F) | 250 | 250 | 250 | 250 |
| Internal Volume (cc) | 1500 | 1480 | 3000 | 2980 |
| Weight of Housing (lbs) | 11 | 11 | 14 | 14 |
| Principle Dimensions: (inches) (1) | | | | |
| Center Of Port To Head | 1.57 | 1.57 | 1.57 | 1.57 |
| Head Diameter | 5.51 | 5.51 | 5.51 | 5.51 |
| Overall Length | 15.24 | 17.24 | 24.92 | 26.92 |
| Element Removal Clearance | 10.94 | 12.94 | 18.98 | 20.98 |
| Filter Element Codes: (2) | | | | |
| Disposable Element (Standard) | 51-230-□ | 51-230-□ | 51-476-□ | 51-476-□ |
| Stainless Steel Element | SS-51-230-□ | SS-51-230-□ | SS-51-476-□ | SS-51-476-□ |
| Vapor Adsorption Cartridge | 51-230-□-TP | -- | 51-476-□-TP | -- |
| Pleated Glass Element (5) | TRE51-230-□PLMG-RB | TRE51-230-□PLMG-RB | TRE51-476-□PLMG-RB | TRE51-476-□PLMG-RB |
| Materials Of Construction: | | | | |
| Head | Aluminum | Aluminum | Aluminum | Aluminum |
| Bowl | Aluminum | Aluminum | Aluminum | Aluminum |
| Internals | Nylon | Nylon | Nylon | Nylon |
| O-Rings (Standard) | Buna-N | Buna-N | Buna-N | Buna-N |
| Drain | Brass | Plastic/Brass | Brass | Plastic/Brass |
| Accessories: | | | | |
| Mounting Bracket | MB385 | MB385 | MB390 | MB390 |
| Buna-N Seal Set (-40°F to 250°F) Standard | BN385AHP | BN385AHP | BN385AHP | BN385AHP |
| EPDM Seal Set (-60°F to 250°F) | GE385AHP | GE385AHP | GE385AHP | GE385AHP |
| Kalrez Seal Set (-10°F to 600°F) | KZ385AHP | KZ385AHP | KZ385AHP | KZ385AHP |
| Viton Seal Set (-15°F to 400°F) | GV385AHP | GV385AHP | GV385AHP | GV385AHP |
| Float Drain | N/A | FD300 | N/A | FD300 |
| Visual Differential Indicator | 300VDI | 300VDI | 300VDI | 300VDI |
| Housing Model w/Indicator | 385AHPVDI | 385AHPFVDI | 390AHPVDI | 390AHPFVDI |
| Maximum Pressure with Indicator – 500 PSIG | | | | |

FLOW RATE IN SCFM FOR ABOVE ASSEMBLIES WITH GRADE 50CS ⁽³⁾ or 70CS ⁽⁴⁾

| Air Line Pressure (PSIG) | 385AHP Series | | 390AHP Series | |
|-----------------------------|---------------|------|---------------|------|
| | 50CS | 70CS | 50CS | 70CS |
| 2 | 21 | 44 | 35 | 50 |
| 15 | 38 | 79 | 64 | 87 |
| 30 | 56 | 116 | 125 | 143 |
| 60 | 93 | 198 | 160 | 221 |
| 100 | 151 | 314 | 256 | 354 |
| 150 | 209 | 430 | 354 | 488 |
| 200 | 302 | 628 | 512 | 708 |
| 250 | 319 | 667 | 546 | 754 |
| 500 | 650 | 1334 | 1091 | 1508 |
| 1000 | 1300 | 2668 | 2182 | 3016 |

- Notes: (1) Dimensions are based on housing and does not include measurement for indicator
 (2) Replace "□" with grade required, e.g. 51-230-70CS, SS-51-476-25, TRE51-230-□PLMG-RB
 (3) Flow rates for Grade 50CS rated at 99.99% against 0.01 micron
 (4) Flow rates for Grade 70CS rated at 95% against 0.01 micron
 (5) O3PL have approximately 10% higher flow than the 70 grade